

Appln. No. 10/805,764
Amdt. dated May 10, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A process for manufacturing a seal having a central longitudinal axis and forming a seal between interior and exterior volumes when held under compression between opposed first and second parallel faces of respective first and second flanges, comprising:
 - cold forming an annular first seal layer; and
 - applying a second layer to a first surface of the first layer,wherein the second layer has a higher resistance to stress relaxation than does the first layer at a target operating temperature in excess of 1652°F (900°C).
2. (Original) The process of claim 1 wherein the applying comprises gradually building up the second layer.
3. (Original) The process of claim 1 wherein the applying directly adheres the second layer to the first layer.
4. (Original) The process of claim 1 wherein the applying adheres the second layer to the first layer along an entirety of at least one of said first surface of the first layer and an adjacent surface of the second layer.
5. (Original) The process of claim 1 wherein:
 - each of the first and second layers provides at least 10% of the radial span of a radial cross-section of the seal along a majority of a length thereof; and
 - each of the first and second layers provides at least 10% of the local longitudinal compressive strength of the seal along a major portion of the length thereof.
6. (Original) The process of claim 1 wherein the first layer consists essentially of a nickel-

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7. (Currently amended) The process of claim 1 wherein the target operating temperature is second layer has a higher resistance to stress relaxation than does the first layer over a target operating temperature range of about 1600°F (871°C) to 2000°F (1093°C).
8. (Original) The process of claim 1 wherein:
the first layer consists essentially of a first nickel-based superalloy; and
the second layer consists essentially of a cast γ hardened second nickel-based superalloy.
9. (Original) The process of claim 1 wherein the second layer extends continuously between first and second portions positioned for contacting the first and second faces and the first layer extends continuously between first and second portions respectively positioned longitudinally inward of said second layer first and second portions.
10. (Original) The process of claim 1 wherein the cold forming forms the first layer with a radial cross-section of bellows-like structure.
- 11.-20.(Canceled)